## Monitoring Data Record

Project Title: R-2809B (Site 1) COE Action ID: 199601836
Stream Name: <u>UT to Richland Creek</u> DWQ Numbers: <u>010550</u>
City, County and other Location Information: Wake Forest Bypass, Wake Co. (Left of Y2
Sta. 10+40 to Sta. 11+25)
Date Construction Completed: April 2006 Monitoring Quarter: (1) of 4
Ecoregion: 8 digit HUC unit: 03020201
USGS Quad Name and Coordinates:
Rosgen Classification:
Length of Project: 384' Urban or Rural: Rural Watershed Size:
Monitoring DATA collected by: M. Green Date: 5/10/06
Applicant Information:
Name: NCDOT Roadside Environmental Unit
Address: 1425 Rock Quarry Rd. Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address:
Consultant Information:
Name:
Address:
Telephone Number: Email address:
Project Status: Complete
- <u></u>
Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level (1) 2 3
Monitoring Level 1 requires completion of Section 1, Section 2 and Section 3
Down it States. The manufactor will viewelly monitor the vecetative plantings on all militarian
Permit States: The permittee will visually monitor the vegetative plantings on all mitigation
streambanks to access and insure complete stabilization of the mitigation stream segments. This
monitoring will include adequate visual monitoring of planted vegetation for a minimum of one
year after final planting, and appropriate remedial actions (e.g., replanting, streambank grading,
ect.). If within any monitoring year, bank stabilization is not acceptable as determined by the Corps of Engineers, and remedial action required by the Corps of Engineers is performed, the
two year monitoring of the affected portions of the stream will begin again.
wo year monitoring of the affected portions of the stream will begin again.
Section 1. PHOTO REFERENCE SITES
Total number of reference photo locations at this site:
1 photo point locations - 2 photos at each location
Dates reference photos have been taken at this site: <u>5/10/06</u>
Individual from whom additional photos can be obtained (name, address, phone):
marrada Irom vitom additional priotos can be obtained (name, address, prione).
Other Information relative to site photo reference:
If required to complete Level 3 monitoring only stop here; otherwise,

	Identify specific problem areas (r	missing, stressed, damaged or dead plantings):
ADDITIONAL COMMENTS: Live stakes and bareroot seedlings noted on the streambank and in		
ADDITIONAL COMMENTS: Live stakes and bareroot seedlings noted on the streambank and in		
ADDITIONAL COMMENTS: Live stakes and bareroot seedlings noted on the streambank and in floodplain consisted of black willow, silky dogwood, green ash, swamp chestnut oak, willow oak, and laurel oak		
	Estimated causes, and proposed/r	required remedial action:
	Estimated causes, and proposed/r	required remedial action:
	Estimated causes, and proposed/r	required remedial action:

Section 2. PLANT SURVIVAL

If required to complete Level 1 and Level 2 monitoring <u>only</u> stop here; otherwise, complete section 3.

## Section 3. CHANNEL STABILITY

**Visual Inspection:** The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel

stability/morphology will not be required. Include a discussion of any deviations from as-built
and an evaluation of the significance of these deviations and whether they are indicative of a
stabilizing or destabilizing situation.
The stream has recently had a bankfull event and some minor bank erosion has taken place. The overall stability of
the stream is in good condition for the 1 <sup>st</sup> Quarter of monitoring. NCDOT will continue to monitor this stream.

Date	Station	Station	Station	Station	Station
Inspected	Number	Number	Number	Number	Number
Structure	Photo 1	Photo 5	Photo 5	Photo 6	
Type	Left Bank	Right Bank	Crossvane	Left Bank	
Is water					
piping					
through or					
around					
structure?					
Head cut or					
down cut					
present?					
Bank or scour	Yes	Yes		Yes	
erosion					
present?					
Other			Erosion		
problems			behind right		
noted?			arm of		
			crossvane		

**NOTE:** Attach separate narrative sheets to each monitoring report describing/discussing the overall monitoring results. Include the identification of specific problem areas/channel failures, estimated cause and proposed/required remedial action. This should include a brief discussion of any parameter that has changed significantly from as-built.

## Wake Forest Bypass

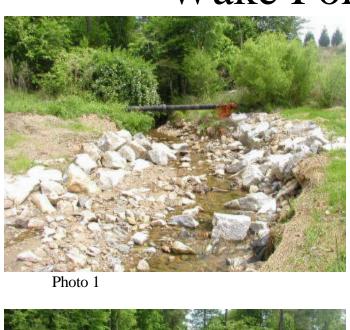




Photo 2



Photo 3



Photo 4



Photo 5 1<sup>st</sup> Quarter – May 2006



Photo 6

## Wake Forest Bypass





Photo 8